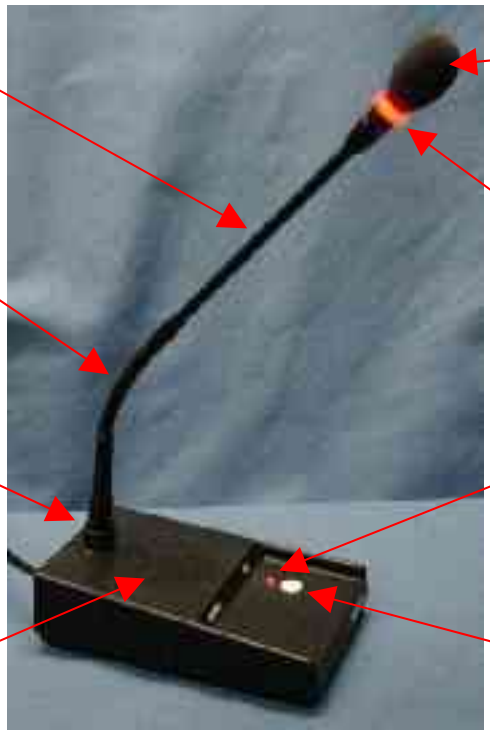
Quick step guide to the Digimic microphone system

The Digimic® microphone



Please note:-

The illustrations in these instructions show a DC/5L microphone base with a TM55/5 microphone stem. You may have an earlier or later system delivered which may differ physically but the functionality will be the same and these instructions are as relevant to these products as they are to the units shown.

Quick step guide to the Digimic microphone system

How to connect the Digimic® microphone

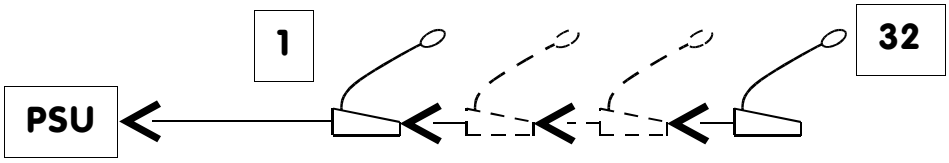
'Female' Tushal threaded 8 pin din socket

Captured 2.5m Cable terminated to 'male' Tushal locking 8 pin din plug

Rotating Locking sleeve

'male' Tushal locking 8 pin din

Each Digimic base plugs into the next base to form a 'daisy' chain



Up to 32 Digimic bases can be on a chain connected to the Power Supply Unit.
NB. Long cable runs, and associated voltage drops, result in fewer bases being supported per line.

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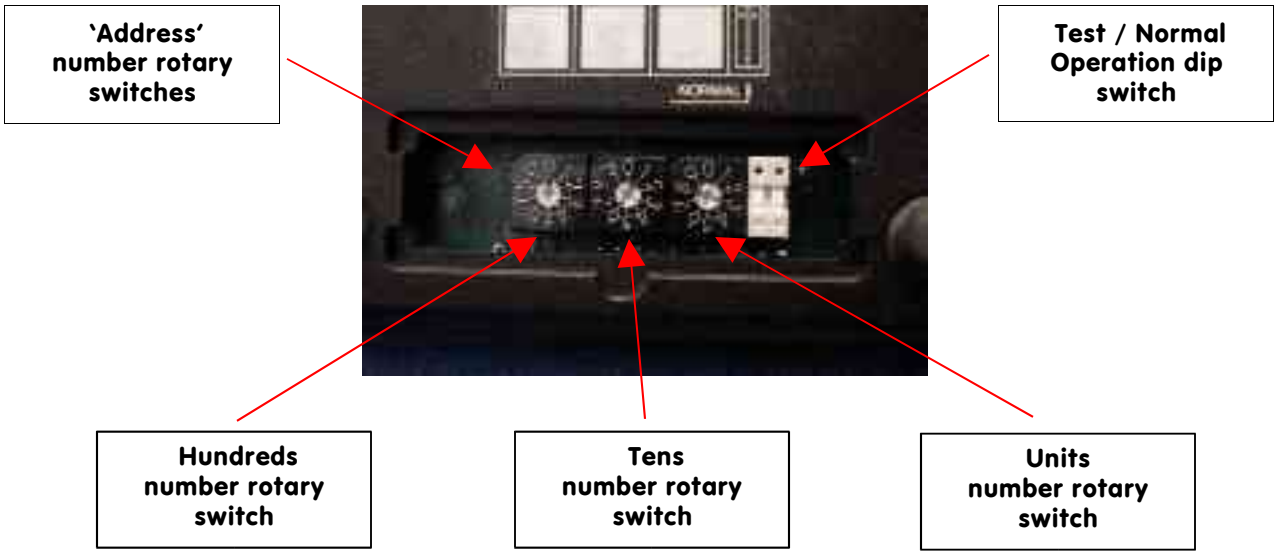
Quick step guide to the Digimic microphone system

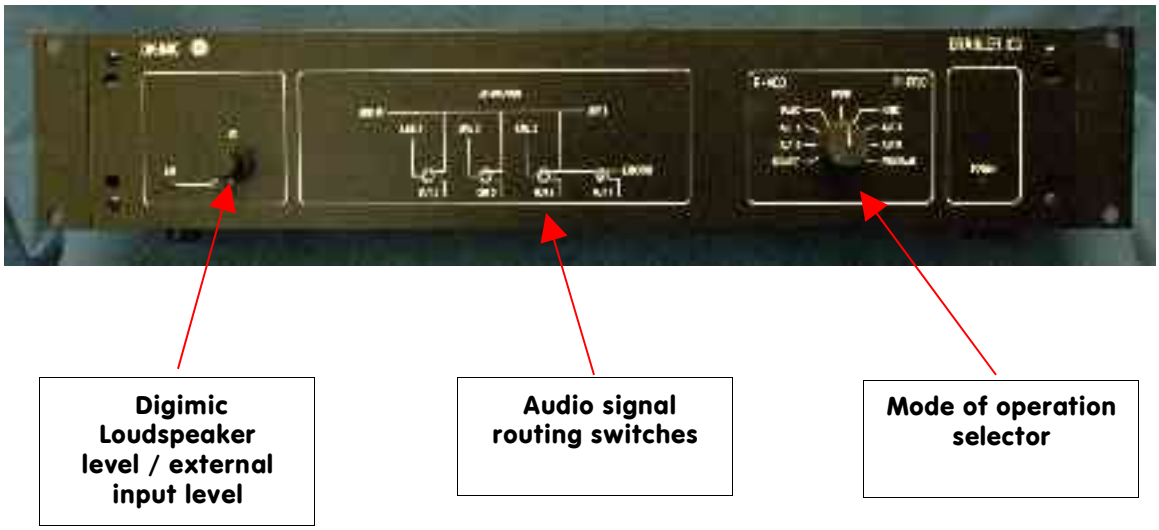


- **Each Digimic base must have it's own number**
- **Address number must not be above operational limit of PSU or controller. i.e. 32 button controller, number range = 2 – 32 if in doubt start number sequence from 3 and go up by units**
- **The 'address number' of 2 is reserved for the 'President' and has priority features. Any base may be made 'President'**
- **Picture shows base address number as 18**
- **Use small slot screwdriver to rotate 'address number' switches**
- **If two bases have same 'address number' then both will become live if selected by the controller or delegate**
- **If 'test /normal' dip switches are in test mode the base has no number and cannot be controlled by the controller. Base may switch on and off independently**
- **Picture shows 'test / normal' dip switches set to normal.**

Quick step guide to the Digimic microphone system

The Digimic® Power Supply

The Digimic microphones connect to the power supply (PSU). The PSU powers the microphones as well as processing their audio output. PSU's can provide between 1 to 4 audio outputs depending on the Model of PSU supplied. This guide shows an M95/44 for illustrative purposes as the more popular 'Dry Hire' alternative.



1. **<u>Digimic Loudspeaker level / external input level</u>**
   This 'pot' controls the volume of the internal loudspeakers built in to the bases of the Digimic Microphones. If rotated anti clockwise the volume decreases, if fully turned anti clockwise, until 'clicked' home, the LED to the left of the 'pot' marked 'EXT' lights. This then allows a separate audio signal to be fed in to the internal base loudspeakers via an XLR input on the back of the unit. The level will then be controlled from the source of the signal i.e. a mixing desk output.

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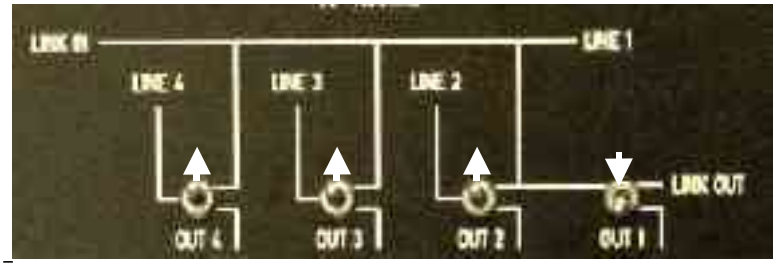
Quick step guide to the Digimic microphone system

2. **Audio signal routing switches**
   Each switch directs the audio from a chain of Digimic microphones. If required the audio output from any line can be separated and outputted via a dedicated XLR out put. 4 lines = 4 switches = 4 XLRs.



   To achieve all audio outputting on XLR No.1 The switches should be set as shown above (From Left to Right) Up, Up, Up, Down

3. **Mode of operation selector**
   This allows you to select how the microphones are used. The basic modes are:-

- **Aut 3 and Aut 6 modes allow 3 or 6 microphones to be live at any time with the users switching themselves on and off.**

- **PAPB mode allows the President's / Chair's microphone (Microphone numbered as No.2) to switch on and off as they please but blocks every other user while the Chair's microphone is live. Only by switching off this microphone can another then be used. After Delegate A has spoken the Chair has to speak again to switch off the Delegate A's microphone. Once the Chair has finished Delegate B may then have the floor, and so on. This therefore only allows 1 microphone live at any time**

- **PABC mode allows the President's / Chair's microphone (Microphone numbered as No.2) to switch on and off as they please. Delegate A may speak at any time. After Delegate A has spoken Delegate B may speak but the action of switching on Delegate B's microphone switches Delegate A's microphone off. This therefore only allows two microphones live at any time.**

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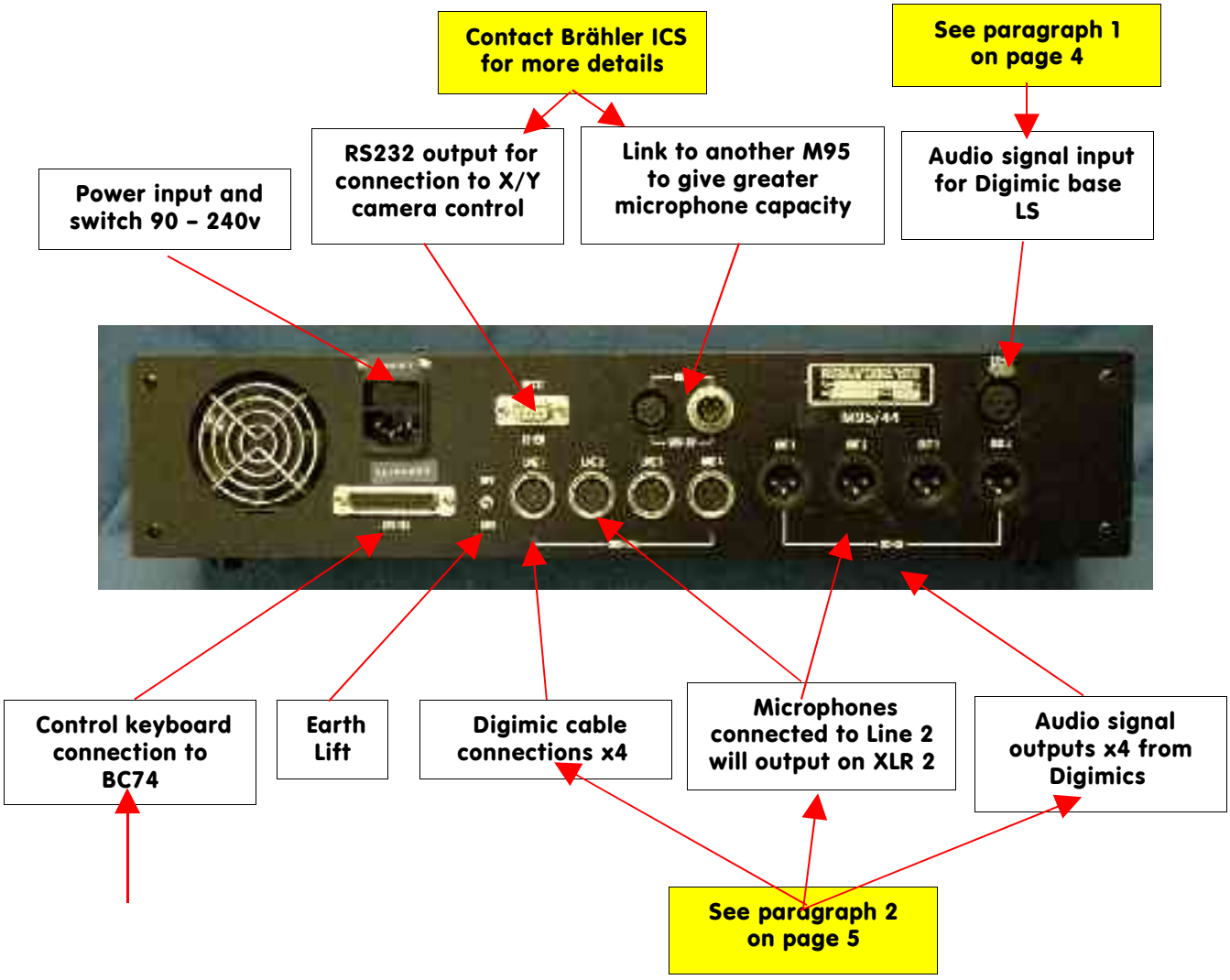
Quick step guide to the Digimic microphone system

How to connect to the Digimic® Power Supply



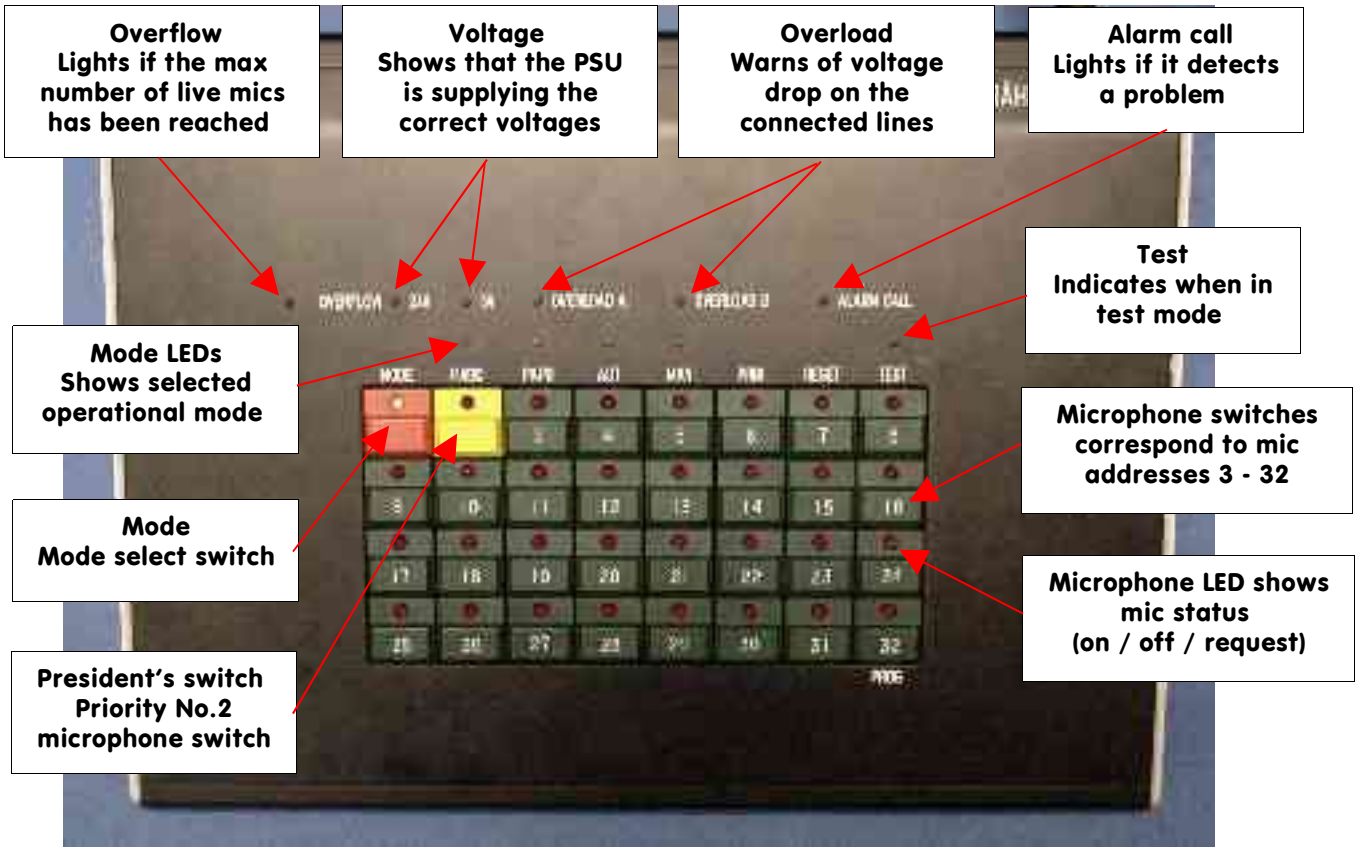
All XLR connections on the M95 are Transformer Balanced with the following pin connections

X pin 1 = Earth
L pin 2 = Live (+)
R pin 3 = Return (-)

Quick step guide to the Digimic microphone system

The Digimic® control panel
(optional)

An optional control panel can control the Digimic microphones remotely. The panel gives a button for each microphone connected so allowing the technician to remotely switch the microphone on and off. This is useful in situations where delegates forget to switch their own microphones, so reducing missed comments or microphones being blocked in AUT mode, were there is a limit on the number of microphones that can be active.

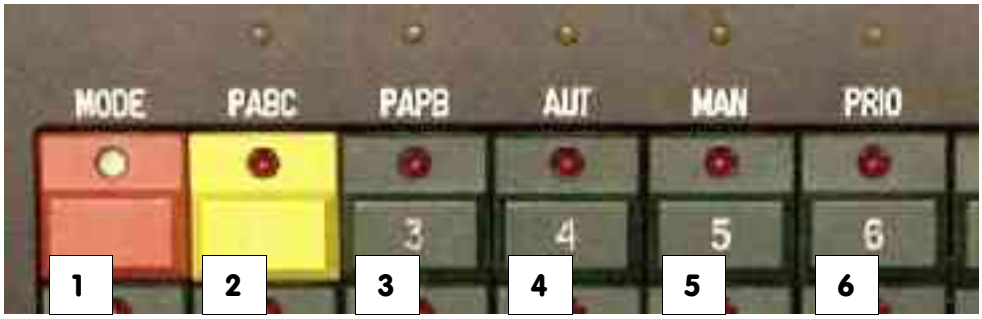


Quick step guide to the Digimic microphone system

The control panel overrides the mode selector on the PSU.

<u>To change microphone mode via the control panel</u>

1. **Press the red 'MODE' switch and then, while still pressing, select required mode.**
2. **For 'PABC' press 'MODE' + Yellow P switch (Yellow LED above lights)**
3. **For 'PAPB' press 'MODE' + Green 3 switch (Yellow LED above lights)**
4. **For 'AUT' press 'MODE' + Green 4 switch (Yellow LED above lights)**
5. **For 'MAN' press 'MODE' + Green 5 switch (Yellow LED above lights)**
6. **To add 'PRIO' to the above mode press 'MODE' + Green 6 switch (Yellow LED above lights)**



'PRIO' when added to your chosen mode of operation gives the President's microphone (address No.2) priority over all other microphones. The control panel does this by switching all other microphones off and preventing others from becoming live while the President's microphone is still live. Once the President's microphone is off normal operation will continue.

Quick step guide to the Digimic microphone system

Manual Mode

The control panel adds the MANUAL mode of operation to the system. This mode requires the delegates to 'Request to speak'. This process proceeds as follows:-

1. **To request to speak the delegate presses their microphone button.**
2. **Request is confirmed by the mic LED on the delegate's microphone base flashing.**
3. **Request is also shown on the control panel as a flashing LED on the corresponding switch.**
4. **Should more than one request be lodged the oldest request will flash fastest.**
5. **To make the microphone live, the technician then presses the relevant switch and the corresponding microphone becomes live.**
6. **The next oldest request begins to flash faster.**

Test

This mode on the control panel systematically switches on and off all connected microphones in numerical order from 2(P) to 32. It is started by pressing 'MODE' + Green 8 switch (Red LED above lights)

Alarm

This LED lights if the control panel detects that a microphone has an address number greater than the unit can control. The control panel illustrated has switches numbered 2 – 32, it can therefore control microphones addressed 2 – 32, if a microphone addressed as 33 is connected and requests, then 'Alarm' will light and the board will hold until reset.

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Quick step guide to the Digimic microphone system

How to connect Digimic® control panel
(optional)

RS232 output for connection to X/Y camera control

Contact Brähler ICS for more details

Digimic cable connections x 2

NB. if Microphones are connected here, their audio will output on XLR 1 on the PSU.